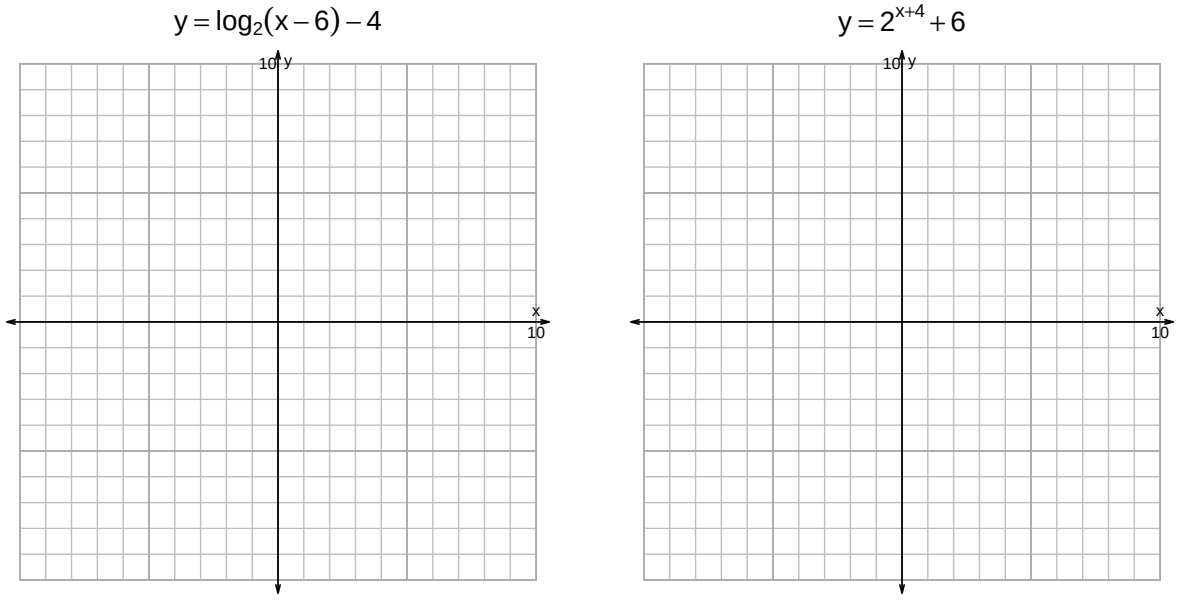
Name: Date:

## s18quiz: EXP LOG (Practice v138)

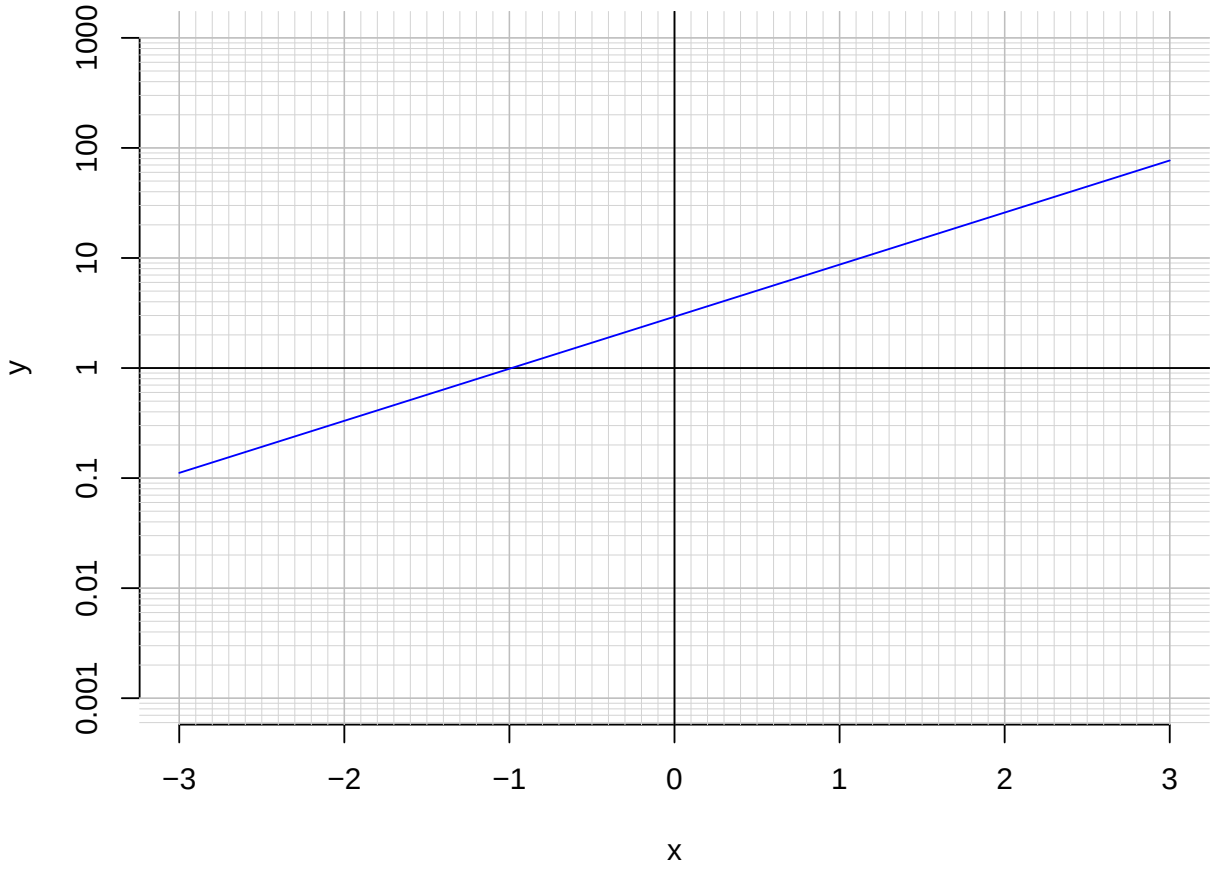
1. Graph $y = \log_2(x-6) - 4$ and $y = 2^{x+4} + 6$ on the grids below. Also, draw any asymptotes with dotted lines.




2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-23 = \left(\frac{-3}{7}\right) \cdot 10^{5t/4}$$

3. An exponential function $f(x) = 2.93 \cdot e^{1.09x}$ is graphed below on a semi-log plot.




a. Using the plot above, evaluate $f(2.4)$.

b. Express $f^{-1}(x)$, the inverse of $f$.

c. Using the plot above, evaluate $f^{-1}(7)$.